

# Sangram S Sisodia

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

13,794  
citations

41  
h-index

70  
g-index

70  
ext. papers

14,819  
ext. citations

11.8  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
67	Familial Alzheimer $\beta$ disease-linked presenilin 1 variants elevate Abeta1-42/1-40 ratio in vitro and in vivo. <i>Neuron</i> , <b>1996</b> , 17, 1005-13	13.9	1350
66	APP processing and synaptic function. <i>Neuron</i> , <b>2003</b> , 37, 925-37	13.9	1248
65	Endoproteolysis of presenilin 1 and accumulation of processed derivatives in vivo. <i>Neuron</i> , <b>1996</b> , 17, 181-90	13.9	999
64	Accelerated amyloid deposition in the brains of transgenic mice coexpressing mutant presenilin 1 and amyloid precursor proteins. <i>Neuron</i> , <b>1997</b> , 19, 939-45	13.9	885
63	A mouse model for Down syndrome exhibits learning and behaviour deficits. <i>Nature Genetics</i> , <b>1995</b> , 11, 177-84	36.3	739
62	Presenilin 1 is required for Notch1 and Dll1 expression in the paraxial mesoderm. <i>Nature</i> , <b>1997</b> , 387, 288-92	50.4	669
61	Trafficking and proteolytic processing of APP. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2012</b> , 2, a006270	37.0	628
60	beta-Amyloid precursor protein-deficient mice show reactive gliosis and decreased locomotor activity. <i>Cell</i> , <b>1995</b> , 81, 525-31	56.2	573
59	Mutant genes in familial Alzheimer $\beta$ disease and transgenic models. <i>Annual Review of Neuroscience</i> , <b>1998</b> , 21, 479-505	17	516
58	gamma-Secretase, Notch, Abeta and Alzheimer $\beta$ disease: where do the presenilins fit in?. <i>Nature Reviews Neuroscience</i> , <b>2002</b> , 3, 281-90	13.5	461
57	Deficient neurogenesis in forebrain-specific presenilin-1 knockout mice is associated with reduced clearance of hippocampal memory traces. <i>Neuron</i> , <b>2001</b> , 32, 911-26	13.9	408
56	Alzheimer $\beta$ disease: genetic studies and transgenic models. <i>Annual Review of Genetics</i> , <b>1998</b> , 32, 461-93	14.5	349
55	Isolation and characterization of APLP2 encoding a homologue of the Alzheimer $\beta$ associated amyloid beta protein precursor. <i>Nature Genetics</i> , <b>1993</b> , 5, 95-100	36.3	340
54	Antibiotic-induced perturbations in gut microbial diversity influences neuro-inflammation and amyloidosis in a murine model of Alzheimer $\beta$ disease. <i>Scientific Reports</i> , <b>2016</b> , 6, 30028	4.9	314
53	A vector for expressing foreign genes in the brains and hearts of transgenic mice. <i>Genetic Analysis, Techniques and Applications</i> , <b>1996</b> , 13, 159-63		290
52	Evidence that levels of presenilins (PS1 and PS2) are coordinately regulated by competition for limiting cellular factors. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 28415-22	5.4	275
51	Evidence that synaptically released beta-amyloid accumulates as extracellular deposits in the hippocampus of transgenic mice. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 9785-93	6.6	255

50	Metabolism of the "Swedish" amyloid precursor protein variant in neuro2a (N2a) cells. Evidence that cleavage at the "beta-secretase" site occurs in the golgi apparatus. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 9390-7	5.4	245
49	Amyloid beta from axons and dendrites reduces local spine number and plasticity. <i>Nature Neuroscience</i> , <b>2010</b> , 13, 190-6	25.5	241
48	Role of the beta-amyloid protein in Alzheimer's disease. <i>FASEB Journal</i> , <b>1995</b> , 9, 366-70	0.9	237
47	Alzheimer amyloid protein precursor in the rat hippocampus: transport and processing through the perforant path. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 9629-37	6.6	234
46	Modulation of gamma-secretase reduces beta-amyloid deposition in a transgenic mouse model of Alzheimer's disease. <i>Neuron</i> , <b>2010</b> , 67, 769-80	13.9	208
45	Microglia turnover with aging and in an Alzheimer's model via long-term in vivo single-cell imaging. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 1371-1376	25.5	193
44	Characterization of a presenilin-mediated amyloid precursor protein carboxyl-terminal fragment gamma. Evidence for distinct mechanisms involved in gamma-secretase processing of the APP and Notch1 transmembrane domains. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 43756-60	5.4	171
43	The Notch ligands, Delta1 and Jagged2, are substrates for presenilin-dependent "gamma-secretase" cleavage. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 7751-4	5.4	159
42	Non-cell-autonomous effects of presenilin 1 variants on enrichment-mediated hippocampal progenitor cell proliferation and differentiation. <i>Neuron</i> , <b>2008</b> , 59, 568-80	13.9	147
41	Antibiotic-induced perturbations in microbial diversity during post-natal development alters amyloid pathology in an aged APP/PS1 murine model of Alzheimer's disease. <i>Scientific Reports</i> , <b>2017</b> , 7, 10411	4.9	133
40	Hyperaccumulation of FAD-linked presenilin 1 variants in vivo. <i>Nature Medicine</i> , <b>1997</b> , 3, 756-60	50.5	131
39	Furin mediates enhanced production of fibrillogenic Aβ peptides in familial British dementia. <i>Nature Neuroscience</i> , <b>1999</b> , 2, 984-8	25.5	128
38	Activation and intrinsic gamma-secretase activity of presenilin 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 21435-40	11.5	112
37	Cellular and molecular biology of Alzheimer's disease and animal models. <i>Annual Review of Medicine</i> , <b>1994</b> , 45, 435-46	17.4	112
36	Sex-specific effects of microbiome perturbations on cerebral amyloidosis and microglia phenotypes. <i>Journal of Experimental Medicine</i> , <b>2019</b> , 216, 1542-1560	16.6	93
35	Altered metabolism of familial Alzheimer's disease-linked amyloid precursor protein variants in yeast artificial chromosome transgenic mice. <i>Human Molecular Genetics</i> , <b>1997</b> , 6, 1535-41	5.6	90
34	Regulated hyperaccumulation of presenilin-1 and the "gamma-secretase" complex. Evidence for differential intramembranous processing of transmembrane substrates. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 33992-4002	5.4	88
33	Multiple effects of aspartate mutant presenilin 1 on the processing and trafficking of amyloid precursor protein. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 43343-50	5.4	78

32	Evidence that the "NF" motif in transmembrane domain 4 of presenilin 1 is critical for binding with PEN-2. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 41953-66	5-4	67
31	Post-translational processing and turnover kinetics of presynaptically targeted amyloid precursor superfamily proteins in the central nervous system. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 11100-6	5-4	67
30	Ectodomain phosphorylation of beta-amyloid precursor protein at two distinct cellular locations. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 1896-903	5-4	55
29	A sequence within the first transmembrane domain of PEN-2 is critical for PEN-2-mediated endoproteolysis of presenilin 1. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 1992-2001	5-4	51
28	The value of transgenic models for the study of neurodegenerative diseases. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 920, 179-91	6-5	44
27	Requirement for presenilin 1 in facilitating $\gamma$ -secretase-mediated endoproteolysis and signaling of notch 1. <i>Journal of Molecular Neuroscience</i> , <b>2000</b> , 15, 189-204	3-3	44
26	Soluble $\beta$ -secretase modulators selectively inhibit the production of the 42-amino acid amyloid $\beta$ peptide variant and augment the production of multiple carboxy-truncated amyloid $\beta$ species. <i>Biochemistry</i> , <b>2014</b> , 53, 702-13	3-2	40
25	Structure of gamma-secretase and its trimeric pre-activation intermediate by single-particle electron microscopy. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 21440-9	5-4	33
24	Differential release of $\beta$ -amyloid from dendrite- versus axon-targeted APP. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 12313-27	6-6	29
23	Identification of a tetratricopeptide repeat-like domain in the nicastrin subunit of $\beta$ -secretase using synthetic antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 8534-9	11-5	29
22	Neuronal degeneration in human diseases and animal models. <i>Journal of Neurobiology</i> , <b>1992</b> , 23, 1277-94		29
21	Synergistic depletion of gut microbial consortia, but not individual antibiotics, reduces amyloidosis in APPPS1-21 Alzheimer $\beta$ transgenic mice. <i>Scientific Reports</i> , <b>2020</b> , 10, 8183	4-9	25
20	Expression of a familial Alzheimer $\beta$ disease-linked presenilin-1 variant enhances perforant pathway lesion-induced neuronal loss in the entorhinal cortex. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 429-34	6-6	24
19	Acne inversa caused by missense mutations in NCSTN is not fully compatible with impairments in Notch signaling. <i>Journal of Investigative Dermatology</i> , <b>2015</b> , 135, 618-620	4-3	22
18	Transgenic mouse models of Alzheimer $\beta$ disease and amyotrophic lateral sclerosis. <i>Brain Pathology</i> , <b>1998</b> , 8, 735-57	6	20
17	Deficits in Enrichment-Dependent Neurogenesis and Enhanced Anxiety Behaviors Mediated by Expression of Alzheimer $\beta$ Disease-Linked Ps1 Variants Are Rescued by Microglial Depletion. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 6766-6780	6-6	15
16	Nucleotide sequence of the chromosome 14-encoded S182 cDNA and revised secondary structure prediction. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>1995</b> , 2, 188-190	2-7	14
15	Mutant presenilin 1 expression in excitatory neurons impairs enrichment-mediated phenotypes of adult hippocampal progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 9148-53	11-5	13

14	Endogenous expression of FAD-linked PS1 impairs proliferation, neuronal differentiation and survival of adult hippocampal progenitors. <i>Molecular Neurodegeneration</i> , <b>2013</b> , 8, 41	19	13
13	The topology of pen-2, a $\beta$ secretase subunit, revisited: evidence for a reentrant loop and a single pass transmembrane domain. <i>Molecular Neurodegeneration</i> , <b>2015</b> , 10, 39	19	11
12	Inherited neurodegenerative diseases and transgenic models. <i>Brain Pathology</i> , <b>1996</b> , 6, 467-80	6	8
11	Gut microbiota-driven brain A $\beta$ amyloidosis in mice requires microglia. <i>Journal of Experimental Medicine</i> , <b>2022</b> , 219,	16.6	7
10	Evidence That the "Lid" Domain of Nicastrin Is Not Essential for Regulating $\beta$ Secretase Activity. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 6748-53	5.4	6
9	Alteration in synaptic nanoscale organization dictates amyloidogenic processing in Alzheimer's disease. <i>iScience</i> , <b>2021</b> , 24, 101924	6.1	6
8	A synthetic antibody fragment targeting nicastrin affects assembly and trafficking of $\beta$ Secretase. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 34851-61	5.4	5
7	Amyloid $\beta$ protein stimulates parallel increases in cellular levels of its precursor and amyloid precursor-like protein 2 (APLP2) in human cerebrovascular smooth muscle cells. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>1997</b> , 4, 54-68	2.7	4
6	Negative evidence for a role of APH1B T27I variant in Alzheimer's disease. <i>Human Molecular Genetics</i> , <b>2020</b> , 29, 955-966	5.6	3
5	An APP ectodomain mutation outside of the A $\beta$ domain promotes A $\beta$ production in vitro and deposition in vivo. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	2
4	Infection and inflammation: New perspectives on Alzheimer's disease. <i>Brain, Behavior, &amp; Immunity - Health</i> , <b>2022</b> , 22, 100462	5.1	2
3	Motor neuron disease and model systems: aetiologies, mechanisms and therapies. <i>Novartis Foundation Symposium</i> , <b>1996</b> , 196, 3-13; discussion 13-7		1
2	Modulation of amyloid deposition and neuroinflammation by the microbiome. <i>Alzheimer's and Dementia</i> , <b>2020</b> , 16, e044154	1.2	
1	EC-03-03: GUT MICROBIOME ALTERATIONS IN ALZHEIMER'S DISEASE: PRECLINICAL EVIDENCE <b>2018</b> , 14, P1007-P1007		